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Title: "Detection and Monitoring Vegetation Damage Associated with
Highways and Highway Facilities"; GSFC ID ST 350

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E72-10371
CR-129829

Problems

1. No ERTS-1 color composites, on order for nearly two months,
have been received to date. These data products are vital for the
identification of vegetation types, and especially for the discernment of
stressed vegetation.

Accomplishments

1. In coniferous forests damaged areas considerably less than an
acre in extent were readily discernible in the RC10 CIR underflight
photography taken on 20 September. An analysis of the Vinten CIR photos,
which was received in the latter part of December, is currently in progress.

2. The locations of approximately one hundred maintenance lots, or
sand-salt storage areas, have been pinpointed on USGS 15-minute quadrangle
maps. Underflight CIR photos covering these sites are currently being
studied in detail to determine the extent and location damage associated
with these facilities. Both RC10 and Vinten photography are being used in
this study.

Planned for Next Period

1. Arrangements are being made to utilize the General Electric
GEMS facility to extract vegetation damage information from a single ERTS
scene obtained on 1 September 1972. An attempt will be made to identify
signatures of stressed areas located in different forest types and to
determine the minimum size area of distressed vegetation that can be
detected.

(E72-10371) DETECTION AND MONITORING
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2. A list of descriptors by band and color composites will be compiled for the three cloud-free scenes now available.

